National Research Council Canada

Conseil national de recherches Canada

DIVISION OF BUILDING RESEARCH

DIVISION DES RECHERCHES EN BÂTIMENT

LIST OF PUBLICATIONS 1963

LISTE DES PUBLICATIONS 1963

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NOTE TO READERS

We would like to draw your attention to the following points:

1. We have changed our publications order form to make ordering easier for you. We would emphasize that when you order priced publications please include the correct payment.

2. Formerly our "Supplement to the List of Publications" was issued six times a year (every two months). It will now be issued only three times a year (every four months), beginning in May 1984.

3. Beginning with the September issue of the supplement, all titles listed will contain a short abstract to help you judge which publications are of interest to you.

4. We are in the process of giving all our publications a fresh look with new covers and more attractive layouts. Watch for these changes in the coming months. At that time you will see new French titles in two of our series. "Note d'information sur la construction" (Building Practice Note) is being changed to "Note sur la construction". "Note d'information de recherche sur le bâtiment" (Building Research Note) will be "Note de recherche en bâtiment".

AVIS AUX LECTEURS

Nous aimerions attirer votre attention sur les points suivants:

1. Nous avons apporté des modifications à notre bon de commande pour vous faciliter la tâche. Nous insistons sur la nécessité d'inclure le paiement exact lorsque vous commandez des publications payantes.

2. Autrefois, notre "Liste supplémentaire des publications" était publiée six fois par année (tous les deux mois). À partir du mois de mai 1984, elle ne sera publiée que trois fois par année (tous les quatre mois).

3. À compter de septembre 1984, tous les titres contenus dans la liste supplémentaire seront accompagnés d'un court résumé pour vous aider à identifier les publications qui présentent un intérêt pour vous.

4. Nous sommes en train de donner un nouveau visage à nos publications grâce à de nouvelles couvertures et de nouvelles présentations. Surveillez ces changements au cours des prochains mois. Vous aurez l'occasion de constater que deux de nos publications françaises portent un nouveau titre. La "Note d'information sur la construction" sera dorénavant intitulée "Note sur la construction" et la "Note d'information de recherche en bâtiment" deviendra la "Note de recherche en bâtiment."

ORDERING INSTRUCTIONS

What We Publish

We publish several categories of reports and papers. Each category is described briefly in the appropriate section. Some of our reports, such as research papers, are highly technical. Our Canadian Building Digests are moderately technical while Building Practice Notes are more on the practical side. Please bear these points in mind when ordering publications.

How to Order

Please use the order form at the back.

Many of our publications are free of charge. Some are not. If you are ordering something for which there is a charge, please submit your payment in accordance with the instructions on the order form.

All orders must specify the publication number.

Mailing Lists

In addition to our annual list of publications, we publish a supplementary list every four months to advise you of new publications as they appear throughout the year.

If you would like to receive our annual list and the supplements regularly, write us a letter to this effect, giving your name and complete address. We will add your name to our mailing list.

We also have separate mailing lists for each of the following series: Canadian Building Digests, Building Practice Notes, Building Research News and Canadian Building Abstracts. If you wish to be put on a mailing list, let us know.

Change of Address

If you move, write and tell us. We need to know both your old and new addresses, and what mailing list(s) your name is on.

DIRECTIVES POUR COMMANDER

Publications

Les documents publiés par la Division peuvent être classés en différentes catégories, chacune d'elles étant brièvement décrite un peu plus loin.

Les travaux de recherche en cours font l'objet de publications hautement techniques. Les Digests de la construction au Canada ont un contenu moyennement technique alors que les Notes sur la construction sont de nature plus pratique.

Il faut tenir compte de ces précisions lorsque vous commandez les publications qui vous intéressent.

Commandes

Vous trouverez un bon de commande à la dernière page de cette brochure. Bon nombre des publications de la Division sont gratuites et d'autres peuvent être obtenues moyennant un léger versement. Dans ce cas, veuillez effectuer votre paiement selon les modalités inscrites sur le bon de commande. Il ne faut surtout pas oublier d'inscrire le numéro de chaque publication.

Listes d'envoi

En plus de la liste annuelle de publications, la DRB publie à tous les quatre mois une liste supplémentaire de publications destinée à informer le public des nouvelles parutions.

Si vous désirez recevoir régulièrement ces listes, vous devez en faire la demande par écrit. Nous ajouterons alors votre nom à notre liste d'envoi.

La Division possède une liste d'envoi pour chacune des publications suivantes: les Digests de la construction au Canada, les Notes sur la construction, les Actualités DRB et les Analyses traitant du bâtiment au Canada. Si vous désirez que votre nom apparaisse sur l'une ou l'autre de ces listes, vous devez en faire la demande en écrivant à la Section des publications de la Division.

Changement d'adresse

Veuillez nous avertir par écrit de tout changement d'adresse. N'oubliez pas d'indiquer l'ancienne adresse et la nouvelle, ainsi que la ou les liste(s) d'envoi sur laquelle ou lesquelles votre nom figure.

DBR Papers

DBR papers are, for the most part, highly technical articles reporting the results of research. They are normally published in research journals and conference proceedings, and are available as reprints.

Les Cahiers de la DRB

Les Cahiers de la DRB présentent, sous forme d'articles de niveau très technique, le résultat des recherches menées à la Division. Ces articles sont généralement publiés dans des périodiques ou dans des comptes rendus de conférences. Ils peuvent être obtenus sous forme de tirés à part et sont reproduits dans leur langue d'origine.

NRCC 15477F	Fissures, mouvements et joints dans les bâtiments. Compte rendu du séminaire de science du bâtiment de la Division des recherches en bâtiment. Automne 1972. Avril 1983, 169 p. (Procès-verbal n° 2)	$2.00
NRCC 20272	Photometry and visual assessment of polarized light under realistic conditions by M. Rea. Reprinted from Journal of the Illuminating Engineering Society, Vol. II, No. 3, April 1982, p. 135–139. (DBR Paper No. 1037)	$1.00
NRCC 20584	Locating the frozen-unfrozen interface in soils using time-domain reflectometry by T.H.W. Baker, J.L. Davis, H.N. Hayhoe and G.C. Topp. Reprinted from Canadian Geotechnical Journal, Vol. 19, 1982, p. 511–517. (DBR Paper No. 1048)	$1.00
NRCC 20585	A one-dimensional analytical model for snow creep pressures on rigid structures by D.M. McClung. Reprinted from Canadian Geotechnical Journal, Vol. 19, 1982, p. 401–412. (DBR Paper No. 1049)	$1.25
NRCC 20588	The influence of snow cover on the ground thermal regime by L.E. Goodrich. Reprinted from Canadian Geotechnical Journal, Vol. 19, 1982, p. 421–432. (DBR Paper No. 1050)	$1.25
NRCC 20650	Influence of specimen frame on sound transmission loss measurement by A.C.C. Warnock. Reprinted from Applied Acoustics, Vol. 15, 1982, p. 307–314. (DBR Paper No. 1053)	$1.00
NRCC 20726	Measurement of the time-of-wetness by moisture sensors and their calibration by P.J. Sereda. S.G. Croll and H.F. Slade. Reprinted from Atmospheric Corrosion of Materials, American Society for Testing and Materials, Special Technical Publication 767, 1982, p. 267–285. (DBR Paper No. 1060)	$1.00
NRCC 20751	Fire safety of soft furnishing — an overview by K. Sumi and M.V. D'Souza. Reprinted from Fire and Materials, Vol. 6, No. 1, 1982, p. 16–22. (DBR Paper No. 1062)	$1.00
NRCC 20753	Sound transmission through windows I. Single and double glazing by J.D. Quirt. Reprinted from Journal of the Acoustical Society of America, Vol. 72, No. 3, September 1982, p. 834–844. (DBR Paper No. 1064)	$1.25
NRCC 20760	Notes from a Seminar on Building Economics (Held at NRC Ottawa, September 24 and 25, 1981). Compiled by A.H. Wilson, A.S. Rakhra and B.K. Jones. 46 p. (Proceedings: No. 4)	$2.00
NRCC 20762	Surface area of cement paste conditioned at various relative humidities by G.G. Litvan and R.E. Myers. Reprinted from Cement and Concrete Research, Vol. 13, No. 1, 1983, p. 49–60. (DBR Paper No. 1065)	$1.25
NRCC 20763	Fracture toughness of autoclaved portland cement/silica mixtures by J.J. Beaudoin. Reprinted from Cement and Concrete Research, Vol. 13, No. 1, 1983, p. 81–88. (DBR Paper No. 1066)	$1.25

NRCC 20806	Permafrost and the shallow thermal regime at Alert, N.W.T. by A. Taylor, the late R.J.E. Brown, J. Pilon, and A.S. Judge. Reprinted from The Roger J.E. Brown Memorial Volume, Proceedings Fourth Canadian Permafrost Conference, Calgary, Alberta, March 2–6, 1981, p. 12–22. (DBR Paper No. 1072)	$1.25
NRCC 20807	The influence of terrain factors on the distribution of permafrost bodies in the Chic-Choc Mountains, Gaspésie, Québec by J.T. Gray and the late R.J.E. Brown. Reprinted from The Roger J.E. Brown Memorial Volume, Proceedings Fourth Canadian Permafrost Conference, Calgary, Alberta, March 2–6, 1981, p. 23–25. (DBR Paper No. 1073)	$1.25
NRCC 20808	Permafrost distribution along the Rocky Mountains in Alberta by Stuart A. Harris and the late R.J.E. Brown. Reprinted from The Roger J.E. Brown Memorial Volume, Proceedings Fourth Canadian Permafrost Conference, Calgary, Alberta, March 2–6, 1981, p. 59–67. (DBR Paper No. 1074)	$1.00
NRCC 20869	Calibration of subjective scaling responses by M.S. Rea. Reprinted from Lighting Research & Technology, Vol. 14, No. 3, 1982, p. 121–129. (DBR Paper No. 1076)	$1.00
NRCC 20895	Sound absorption variation caused by modifications to a standard mounting by R.E. Halliwell. Reprinted from Journal of the Acoustical Society of America, Vol. 72, No. 5, November 1982, p. 1634–1636. (DBR Paper No. 1077)	$1.00
NRCC 20929	Surface weatherability of glass-fibre-reinforced polyester sheeting. I. Effect of modification of resin chemical composition by R.S. Yamasaki. Reprinted from Composites Technology Review. Fall 1982, American Society for Testing and Materials, p. 84–87. (DBR Paper No. 1078)	$1.00
NRCC 20940	Delayed elastic strain criterion for first cracks in ice by N.K. Sinha. Reprinted from International Union of Theoretical and Applied Mechanics. Symposium of Deformation & Failure of Granular Materials, Delft/31 August – 3 September 1982, p. 323–330. (DBR Paper No. 1079)	$1.00
NRCC 20956	Properties of building materials at elevated temperatures by T.Z. Harmathy. March 1983, 72 p. (DBR Paper No. 1080)	$3.00
NRCC 20959	Energy conservation technology in housing by G.O. Handegord. Reprinted from Proceedings, "Building Toward 2001", Toronto, November 1–4, 1981, p. 70–73. (DBR Paper No. 1081)	$1.00
NRCC 20963	Properties of portland cement paste reinforced with mica flakes by J.J. Beaudoin. Reprinted from Cement and Concrete Research, Vol. 13, No. 2, 1983, p. 153–160. (DBR Paper No. 1082)	$1.00
NRCC 20983	Loads due to drifted snow by J.T. Templin and W.R. Schriever. Reprinted from Journal of the Structural Division, Proceedings of the American Society of Civil Engineers, ASCE, Vol. 108, No. ST8, August 1982, p. 1916–1925. (DBR Paper No. 1083)	$1.00
NRCC 20984	Some factors affecting drainage of moisture from wet insulation in flat roofs by C.P. Hedlin. Reprinted from Moisture Migration in Buildings, ASTM, STP 779, 1982, p. 28–40. (DBR Paper No. 1084)	$1.00
NRCC 21002	Water vapour as a tracer gas for measuring air change rates in houses by R.L. Quirouette. Reprinted from the Proceedings, Building Science Conference "Design and Rehabilitation of Building Envelopes" 4, 5 March 1982, London, Ontario, p. 68–83. (DBR Paper No. 1085)	$1.50

NRCC 21013	The Delphi method — A complement to research by T.Z. Harmathy. Reprinted from Fire and Materials, Vol. 6, No. 2, 1982, p. 76–79. (DBR Paper No. 1086)	$1.00
NRCC 21017	Surface weatherability of glass-fiber reinforced polyester sheeting II. Effect of constituents by R.S. Yamasaki. Reprinted from American Society for Testing and Materials, Composite Technology Review, Vol. 4, No. 4, Winter 1982, p. 125–129. (DBR Paper No. 1087)	$1.00
NRCC 21085	Comparison of mechanical properties of compacted calcium hydroxide and portland cement paste systems by J.J. Beaudoin. Reprinted from Cement and Concrete Research, Vol. 13, No. 3, 1983, p. 319–324. (DBR Paper No. 1088)	$1.00
NRCC 21088	Methods of evaluating single-ply roofing membranes by H.O. Laaly. Reprinted from Single-ply Roofing Technology, American Society for Testing and Materials, Special Technical Publication 790, 1982, p. 65–77. (DBR Paper No. 1089)	$1.50
NRCC 21089	Frost action and foundations by E. Penner and C.B. Crawford. March 1983, 33 p. 46 figures. (DBR Paper No. 1090)	$2.50
NRCC 21092	Effect of vibrations on historic buildings: An overview by J.H. Rainer. Reprinted from The Association for Preservation Technology Bulletin, Vol. XIV, No. 1, 1982, p. 2–10. (DBR Paper No. 1091)	$1.00
NRCC 21093	Methods of determining heat release rate: State-of-the-art by Y. Tsuchiya. Reprinted from Fire Safety Journal, 5 (1982) p. 49–57. (DBR Paper No. 1092)	$1.00
NRCC 21127	Fire Research at DBR/NRCC. Proceedings of a Symposium held in September 1981 to mark the opening of the DBR Fire Research Field Station, April 1983, 91 p., 1 appendix, 22 figures. (DBR Proceedings No. 5)	$5.00
NRCC 21172	Insulating existing flat roofs: Design and construction details by K.N. Burn and R. Roux. Reprinted from Journal of Thermal Insulation, Vol. 5 (April 1982) p. 209–228. (DBR Paper No. 1094)	$1.75
NRCC 21200	Extraction of $Ca(OH)_2$ from portland cement and $3CaO.SiO_2$ pastes by V.S. Ramachandran and G.M. Polomark. Reprinted from Journal of Chemical Technology & Biotechnology, Vol. 32, p. 946–952. (DBR Paper No. 1095)	$1.00
NRCC 21203	Exterior walls: Understanding the problems. Proceedings of the Building Science Forum '82. April 1983, 63 p. (DBR Proceedings No. 6)	$3.50
NRCC 21203F	Murs extérieurs: causes des désordres. Compte rendu du Forum '82: science du bâtiment. Août 1983, 61 p. Compte rendu N° 6.	3,50 $
NRCC 21223	Development of thermal insulation performance test methods by M. Bomberg. Reprinted from ASTM Standardization News, December 1982, p. 26–32. (DBR Paper No. 1096)	$1.00
NRCC 21227	Morphology of polyurethane modified by plasticizing, blending, or reinforcing by A. Blaga and D. Feldman. Reprinted from Journal of Applied Polymer Science, Vol. 28, 1983, p. 1033–1044. (DBR Paper No. 1097)	$1.25
NRCC 21278	Derivation of Voellmy's maximum speed and run-out estimates from a centre-of-mass model by D.M. McClung. Reprinted from Journal of Glaciology, Vol. 29, No. 102, 1983, p. 350–352. (DBR Paper No. 1098)	$1.00
NRCC 21283	Inter-laboratory variability of sound absorption measurement by R.E. Halliwell. Reprinted from Journal of the Acoustical Society of America, Vol. 73, No. 3, March 1983, p. 880–886. (DBR Paper No. 1099)	$1.00

NRCC 21304	A correlation between air infiltration and air tightness for houses in a developed residential area by C-Y. Shaw. Reprinted from ASHRAE Transactions, Vol. 87, Pt. 2, 1981, p. 333–341. (DBR Paper No. 1100)	$1.00
NRCC 21305	An appraisal of the sulphur hexafluoride decay technique for measuring air infiltration rates in buildings by M.R. Bassett, C-Y. Shaw and R.G. Evans. Reprinted from ASHRAE Transactions, Vol. 87, Pt. 2, 1981, p. 361–371. (DBR Paper No. 1101)	$1.25
NRCC 22411	Canadian energy consumption and conservation programs related to buildings by J.K. Latta. Reprinted from Proceedings of CIB W67. Third International Symposium, Dublin, Ireland, 1982, Energy Use in the Built Environment, Vol 1, p. 1.A.13–1.A.26. (DBR Paper No. 1102)	$1.50
NRCC 22412	Initial slides in leda clay by K.T. Law. Reprinted from Proceedings, International Symposium on Landslides, New Delhi, India, 1980, Vol. 1, p. 331–336. (DBR Paper No. 1103)	$1.00
NRCC 22413	Semi-empirical model of heat transfer in dry mineral fiber insulations by M. Bomberg and S. Klarsfeld. Reprinted from Journal of Thermal Insulation, Vol. 6, (January 1983), p. 156–173. (DBR Paper No. 1104)	$1.50
NRCC 22415	Laboratory and field determination of preconsolidation pressures at Gloucester by S. Leroueil, L. Samson and M. Bozozuk. Reprinted from Canadian Geotechnical Journal, Vol. 20, No. 3, 1983, p. 477–490. (DBR Paper No. 1105)	$2.00
NRCC 22416	Comments on calibration and design of a heat flow meter by M. Bomberg and K.R. Solvason. Reprinted from Thermal Insulation, Materials, and Systems for Energy Conservation in the '80s, ASTM, STP 789, 1983, p. 277–292. (DBR Paper No. 1106)	$1.25
NRCC 22420	The prediction of total heave of a slab-on-grade floor on Regina clay by R.T. Yoshida, D.G. Fredlund and J.J. Hamilton. Reprinted from Canadian Geotechnical Journal, Vol. 20, No. 1, 1983, p. 69–81. (DBR Paper No. 1107)	$1.25
NRCC 22429	Effectiveness of wall insulation by G.D. Schuyler and K.R. Solvason. Reprinted from Thermal Insulation, Materials, and Systems for Energy Conservation in the '80s, ASTM, STP 789, 1983, p. 542 -550. (DBR Paper No. 1108)	$1.00
NRCC 22430	Effect of moisture on thermal resistance of some insulations in a flat roof under field-type conditions by C.P. Hedlin. Reprinted from Thermal Insulation, Materials, and Systems for Energy Conservation in the '80s, ASTM, STP 789, 1983, p. 602–625. (DBR Paper No. 1109)	$1.50
NRCC 22434	Estimation of $Ca(OH)_2$ and $Mg(OH)_2$ — Implications in cement chemistry by V.S. Ramachandran. Reprinted from Israel Journal of Chemistry, Vol. 22, 1982, p. 240–246. (DBR Paper No. 1110)	$1.00
NRCC 22435	Dynamic live loads at a rock concert by G. Pernica. Reprinted from Canadian Journal of Civil Engineering. Vol. 10, No. 2, 1983, p. 185–191. (DBR Paper No. 1111)	$1.00
NRCC 22456	Overview of impact of energy conservation on firesafety by T.Z. Harmathy. Reprinted from Fire Technology, Vol. 19, No. 1., February 1983, p. 31–56. (DBR Paper No. 1112)	$1.25
NRCC 22457	Evaluating the performance of organic coatings and building materials by H.E. Ashton. Reprinted from ASTM, Special Technical Publication 781, 1983, p. 67–85. (DBR Paper No. 1113)	$1.25

NRCC 22458	Laboratory methods for determining moisture absorption of thermal insulations. I: Review by M. Bomberg. Reprinted from Journal of Thermal Insulation, Vol. 6, April 1983, p. 232–249. (DBR Paper No. 1114)	$1.25
NRCC 22476	Adsorption and hydration behavior of tricalcium aluminate-water and tricalcium aluminate-gypsum-water systems in the presence of superplasticizers by V.S. Ramachandran. Reprinted from ACI Journal, May-June 1983, p. 235–241. (DBR Paper No. 1115)	$1.00
NRCC 22484	Experience with new auditorium acoustic measurements by J.S. Bradley. Reprinted from Journal of Acoustical Society of America, Vol. 73, No. 6, June 1983, p. 2051–2058. (DBR Paper No. 1116)	$1.00
NRCC 22487	A technique for zoom transform and longtime signal analysis by W.T. Chu. Reprinted from Canadian Acoustics, Vol. 11(3), July 1983, p. 45–50. (DBR Paper No. 1117)	$1.00
NRCC 22499	Testing ice in the High Arctic by N.K. Sinha. Reprinted from Proceedings of the 9th. Canadian Congress of Applied Mechanics (CANCAM 83). University of Saskatchewan, Saskatoon, Sask., May 30 – June 3, 1983, p. 899–900. (DBR Paper No. 1118)	$1.00
NRCC 22514	The Eastern Canadian Strong-Motion Seismograph Network by J.H. Rainer and E.C. Luctkar. Reprinted from Proceedings Fourth Canadian Conference on Earthquake Engineering, Vancouver, B.C., June 15–17, 1983, p. 519–528. (DBR Paper No. 1119)	$1.00
NRCC 22537	Performance of concrete tower silos on clays in Quebec by J.P. Morin and M. Bozozuk. Reprinted from Canadian Agricultural Engineering, Vol. 25, No. 1, Summer 1983, p. 81–88. (DBR Paper No. 1120)	$1.00
NRCC 22571	Post-flashover compartment fires by T.Z. Harmathy and J.R. Mehaffey. Reprinted from Fire and Materials, Vol. 7, No. 2, 1983, p. 49–61. (DBR Paper No. 1122)	$1.25
NRCC 22572	Creep of structural steel in fire: Analytical expressions by G. Williams-Leir. Reprinted from Fire and Materials, Vol. 7, No. 2, 1983, p. 73–78. (DBR Paper No. 1121)	$1.00
NRCC 22574	Creep of columnar-grained ice at low stress by L.W. Gold. Reprinted from Annals of Glaciology, Vol. 4, 1983, p. 73–78. (DBR Paper No. 1123)	$1.00
NRCC 22577	Compressive strength of eccentrically loaded masonry prisms by A.H.P. Maurenbrecher. Reprinted from 3rd. Canadian Masonry Symposium '83, Edmonton, Canada, June 6–8, 1983, p. 10–13. (DBR Paper No. 1124)	$1.25
NRCC 22584	Precision and accuracy of guarded hot plate method by M. Bomberg and K.R. Solvason. Reprinted from Thermal Conductivity 17, Proceedings, 17th International Thermal Conductivity Conference, Gaithersburg, MD, June 15–18, 1981, p. 393–410. (DBR Paper No. 1125)	$2.00
NRCC 22585	Criteria for constructing ice platforms in relation to meteorological variables by M. Nakawo. Reprinted from Cold Regions Science and Technology, Vol. 6 (1983), p. 231–240. (DBR Paper No. 1126)	$1.00
NRCC 22608	Lighting energy conservation: Simple analytic methods with time-lapse photography by M.S. Rea and R.R. Jaekel. Reprinted from Lighting Research & Technology. Vol. 15, No. 2, 1983, p. 77–82. (DBR Paper No. 1128)	$1.00
NRCC 22615	Measurements on air porosity of sea ice by M. Nakawo. Reprinted from Annals of Glaciology, Vol. 4, 1983, p. 204–208. (DBR Paper No. 1129)	$1.00

NRCC 22619	On measuring flexural properties of ice using cantilever beams by R.M.W. Frederking and G.W. Timco. Reprinted from Annals of Glaciology, Vol. 4, 1983, p. 58–65. (DBR Paper No. 1130)	$1.00
NRCC 22632	Preventive measures to counteract expansion of concrete containing alkali-reactive aggregates by P.E. Grattan-Bellew. Reprinted from Durability of Building Materials, 1 (1983) p. 363–376. (DBR Paper No. 1131)	$1.25
NRCC 22633	Determination of time-of-wetness due to condensed moisture by R.S. Yamasaki, H.F. Slade and P.J. Sereda. Reprinted from Durability of Building Materials, 1 (1983) p. 353–361. (DBR Paper No. 1132)	$1.00
NRCC 22651	Sound transmission through windows II. Double and triple glazing by J.D. Quirt. Reprinted from Journal of the Acoustical Society of America, Vol. 74, No. 2, August 1983, p. 534–542. (DBR Paper No. 1133)	$1.00
NRCC 22652	Ignition of poly(methyl methacrylate) slabs using a small flame by F.R.S. Clark. Reprinted from Journal of Polymer Science, Polymer Chemistry Edition, Vol. 21, 1983, p. 2323–2334. (DBR Paper No. 1134)	$1.25
NRCC 22674	Heat transfer characteristics of in-ground heat exchangers by O.J. Svec, L.E. Goodrich and J.H.L. Palmer. Reprinted from Energy Research, Vol. 7, 1983, p. 265–278. (DBR Paper No. 1136)	$1.50
NRCC 22678	Field test I of compressive strength of first-year sea ice by N.K. Sinha. Reprinted from Annals of Glaciology, Vol. 4, 1983, p. 253–259. (DBR Paper No. 1137)	$1.00
NRCC 22701	Determination of avalanche dynamics friction coefficients from measured speeds by D.M. McClung and P.A. Schaerer. Reprinted from Annals of Glaciology, Vol. 4, 1983, p. 170–173. (DBR Paper No. 1138)	$1.00
NRCC 22702	Air entrainment in the presence of superplasticizers by G.G. Litvan. Reprinted from ACI Journal, July/August 1983, p. 326–331. (DBR Paper No. 1139)	$1.00
NRCC 22703	Re-evaluation of standard mortar bar and concrete prism tests for alkali-aggregate reactivity by P.E. Grattan-Bellew. Reprinted from Matériaux et Constructions, Vol. 16, No. 94, 1983, p. 243–250. (DBR Paper No. 1140)	$1.00
NRCC 22704	Effect of applied stress on the helium inflow characteristics of hydrated portland cement by R.F. Feldman and J.J. Beaudoin. Reprinted from Cement and Concrete Research, Vol. 13, 1983, p. 470–476. (DBR Paper No. 1141)	$1.00
NRCC 22720	Geotechnical R & D needs in Canada. Report of a study carried out for the National Research Council of Canada by J.I. Clark, B. Ladanyi, D.H. MacDonald and G.G. Meyerhof assisted by F.L. Peckover. October 1983, 18 p. (Special Technical Publication No. 6)	$2.50
NRCC 22720F	Besoins de R – D en géotechnique au Canada par J.I. Clark, B. Ladanyi, D.H. MacDonald et G.G. Meyerhof assistés par F.L. Peckover. Octobre 1983, 20 p. (Publication technique spéciale n° 6)	2,50 $
NRCC 22784	Fire cost control in Canada by G. Williams-Leir. Reprinted from Urban Analysis, Vol. 7, 1983, p. 169–210. (DBR Paper No. 1142)	$2.50
NRCC 22785	Effects of fire on the permafrost ground thermal regime by the late R.J.E. Brown. Reprinted from The Role of Fire in Northern Circumpolar Ecosystems SCOPE Report No. 18, 1983, Chapter 6, p. 97–110. (DBR Paper No. 1143)	$1.25

NRCC 22786	Effects of Haidinger's brushes on visual performance by M.S. Rea. Reprinted from Journal of IES, April 1983, p. 197–203. (DBR Paper No. 1144)	$1.00
NRCC 22787	Creep model of ice for monotonically increasing stress by N.K. Sinha. Reprinted from Cold Regions Science and Technology, Vol. 8, (1983), p. 25–33. (DBR Paper No. 1145)	$1.00
NRCC 22788	Flexural strength and fracture toughness of sea ice by G.W. Timco and R.M.W. Frederking. Reprinted from Cold Regions Science and Technology, Vol. 8, August 1983, p. 35–41. (DBR Paper No. 1146)	$1.00
NRCC 22789	Subjective rating of party walls by J.S. Bradley. Reprinted from Canadian Acoustics, Vol. 11(4), October 1983, p. 37–45. (DBR Paper No. 1147)	$1.00
NRCC 22803	Fire severity: Basis of fire safety design by T.Z. Harmathy. Reprinted from Fire Safety of Concrete Structures, American Concrete Institute, SP-80, 1983, p. 115–149. (DBR Paper No. 1148)	$3.00
NRCC 22804	Ice behaviour around a small Arctic Island by R. Frederking, T. Sanderson, E. Wessels and M. Inoue. Reprinted from VTT Symposium 28, The Seventh International Conference on Port and Ocean Engineering under Arctic Conditions, Helsinki, Finland, 5–9 April, 1983, Vol. 2, p. 875–887. (DBR Paper No. 1149)	$1.25
NRCC 22805	Uniaxial compressive strength and deformation of Beaufort Sea ice by R. Frederking and G.W. Timco. Reprinted from VTT Symposium 27, The Seventh International Conference on Port and Ocean Engineering under Arctic Conditions, Helsinki, Finland, 5–9 April, 1983, Vol. 1, p. 89–98. (DBR Paper No. 1150)	$1.00
NRCC 22806	Field tests on rate sensitivity of vertical strength and deformation of first-year columnar-grained sea ice by N.K. Sinha. Reprinted from VTT Symposium 27, The Seventh International Conference on Port and Ocean Engineering under Arctic Conditions, Helsinki, Finland, 5–9 April, 1983, Vol. 1, p. 231–242. (DBR Paper No. 1151)	$1.00
NRCC 22841	Quality control during production and application of roofing materials by H.O. Laaly. Reprinted from 5th International Congress on Roofing and Waterproofing, Association Internationale de l'Etanchéité, Strasbourg, 1–3 June 1983, p. 253–267. (DBR Paper No. 1153)	$1.50

Canadian Building Digests

Canadian Building Digests (CBD) are 4-page summaries of technical subjects of current interest to the building industry. Over 225 have been published since 1960. They are widely used by architects, engineers and teaching institutions.

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Les Digests de la construction au Canada

Les Digests de la construction au Canada sont des articles concis (4 pages), portant sur des sujets techniques d'intérêt pour l'industrie de la construction. Plus de 225 numéros ont été publiés depuis 1960. L'information contenue dans les digests est largement utilisée par les architectes, les ingénieurs et les établissements d'enseignement.

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CBD 225F	Évaluation et réparation des planchers de garage endommagés par G.G. Litvan. Septembre 1983, 4 p.	Sans Frais
CBD 226F	Approache conceptuelle pour limiter les risques d'incendie par J.F. Berndt et J.K. Richardson. Mai 1983, 4 p.	Sans Frais
CBD 227F	Tuyaux de plastique thermodurcissable renforcé par A. Blaga. Mai 1983, 4 p.	Sans Frais

Building Practice Notes

Building Practice Notes (BPN) are short reports on techniques and problems associated with current building practice. They are suitable for a less technical audience.

BP Note 40	Building Drawings Checklist: Mechanical drawings for housing by C.S. Strelka. December 1982, 22 p.	No Charge
BP Note 41	Building Drawings Checklist: Electrical drawings for housing by C.S. Strelka. February 1983, 18 p.	No Charge
BP Note 43	Commentary on Standard CAN3-B78.3-M77 Building Drawings by C.S. Strelka and D.C. Westwood. May 1983, 56 p.	No Charge
BP Note 44	How to reduce noise transmission between homes (apartments) by A.C.C. Warnock. July 1983, 11 p., 4 tables, 10 figures.	No Charge

BP Note 45	Building maintenance profile for National Research Council, Montreal Road Campus, Ottawa by F.W. Steel. July 1983, 2 tables, 1 appendix.	No Charge

Notes sur la construction

Les Notes sur la construction font état des techniques et des problèmes de construction actuels. Ces documents sont d'un niveau technique moyen.

BP Note 28F	Les facteurs qui influent sur la production des dessins d'architecture par C.S. Strelka et A.J. Wilson. Novembre 1982, 21 p.	Sans Frais
BP Note 34F	Amélioration de l'étanchéité à l'air dans quatre établissements scolaires par C.Y. Shaw. Novembre 1983, 5 p., 6 figures.	Sans Frais
BP Note 35F	Recommandations pour améliorer la sécurité des escaliers par J.L. Pauls. Août 1983, 16 p.	Sans Frais
BP Note 37F	Conception des enveloppes de bâtiments utilisant des systèmes de murs-rideaux en métal et en verre par R.L. Quirouette. Septembre 1983, 14 p.	Sans Frais

Building Research Notes

Building Research Notes (BRN) are short reports designed for immediate publication of research results. They are suitable for a specialized audience.

BR Note 194	A case study of a daylight-linked dimming system for fluorescent lamps by R.R. Jaekel and M.S. Rea. January 1983, 7 p., 7 figures.	No Charge
BR Note 200	An inventory of Canadian building stock, 1980 by F. Steel. March 1983, 13 p.	No Charge
BR Note 201	Computed energy consumption for new and existing high-rise residential buildings: suggested norms and potential reductions by J.K. Latta. March 1983, 16 p.	No Charge
BR Note 202	A field study of infiltration-induced variations in the heating of apartments by J.K. Latta. April 1983, 8 p.	No Charge
BR Note 203	Reverberation room qualification studies at the National Research Council of Canada by W.T. Chu. May 1983, 7 p., 7 tables, 7 figures.	No Charge
BR Note 204	The effect of mechanical ventilation on the air leakage characteristic of a two-storey detached house by C-Y. Shaw. July 1983, 17 p., 5 tables, 9 figures.	No Charge
BR Note 205	Seasonal moisture variation in wood siding and framing: A case study by D.L. Scott. November 1983, 5 p., 9 figures.	No Charge

Notes de recherche en bâtiment

Les Notes de recherche en bâtiment visent à communiquer rapidement les résultats de recherches et s'adressent à un public averti. Certains numéros ont été traduits en français dans la mesure où cela était possible.

BR Note 180F	Consommation d'énergie dans les établissements scolaires par A.H. Elmahdy. Novembre 1983, 32 p.	Sans Frais
BR Note 188F	Étude sur le chauffage solaire passif à la Division des recherches en bâtiment par S.A. Barakat. Novembre 1982, 11 p.	Sans Frais

Technical Translations

These are translations of technical reports originally published by other institutions outside Canada in a foreign language. We publish these translations if they are deemed to be significant contributions to the literature.

Traductions techniques

Les traductions techniques sont des documents qui ont déjà été publiés à l'étranger dans une langue autre que l'anglais ou le français. La Division les publie en raison de leur apport significatif à la documentation existante.

TT 2041	Effect of an ice cover frozen to the cylindrical supports of offshore oil well platforms subjected to water level fluctuations. S.A. Vershinin et al. Neftepromyslovoe Stroitel'Stvo, (4): 9–11, 1980.	$2.00
TT 2064	Handbook on the determination of the physical, thermal and mechanical properties of frozen soils by R.M. Sarkisyan, A.Z. Nersesova, S.S. Vyalov and A.G. Zatsarnaya. Moscow, 1973, 202 p.	$15.00
TT 2067	Measures against errors in the building process by Miroslav Matousek. Institut of Structural Engineering Swiss Federal Institute of Technology, Zurich, 1982, 214 p.	$15.00
TT 2070	On the functional dependence of the freezing point of soils on the composition of water soluble salts in an interstitial solution by Yu. Ya. Velli and P.A. Grishin. Rheology of Soils and Engineering Geocryology, 193–196, 1982.	$2.00

Computer Programs

HOTCAN is a user-friendly computer program with the capability of calculating the annual space heat requirements for residences and small buildings which do not require simultaneous heating and cooling. The program uses a month-by-month calculation technique.

Programes informatiques

HOTCAN est un programme informatique facilement utilisable qui permet de calculer les besoins énergétiques annuels requis pour le chauffage d'habitations et de petits bâtiments qui ne requièrent pas un chauffage et un refroidissement simultanés. Le programme fait appel à une méthode qui tient compte de calculs effectués mois par mois.

CP 48	HOTCAN Program Manual for Apple II Plus Computer by M. Lux. September 1982, 20 p., 2 figures.	$25.00 (includes diskette)
CP 49	HOTCAN: A computer program for estimating the space heating requirement of residences by R.S. Dumont, M.E. Lux and H.W. Orr. September 1982, 11 p., 4 tables, 5 figures, 35 p. computer printout.	No Charge
CP 50	HOTCAN Program Manual for TRS-80 Model I Computer by M. Lux. March 1983, 20 p., 2 figures	$25.00 (includes diskette)
CP 51	HOTCAN 2.1 Program Manual for Commodore Computers by M. Lux. September 1983, 25 p., 2 figures. Available for both 35 track and 77 track Commodore drives.	$25.00 (includes diskette)

Miscellaneous

@ Copies available from the author(s), Division of Building Research, National Research Council, Montreal Road, Ottawa, Ontario, K1A 0R6.

Divers

Des exemplaires de ces documents peuvent être obtenus directement des auteurs en écrivant à la Division des recherches en bâtiment, Conseil national de recherches du Canada, chemin Montréal, Ottawa, Ontario, K1A 0R6.

@ An overview of visual performance by Mark S. Rea. Reprint from Lighting Design & Application, November 1982, 7 p.

@ Performance of a reading test under different levels of illumination by Stanley W. Smith and Mark S. Rea. Reprint from the Journal of IES, Vol. 12, No. 1, October 1982, p. 29–33.

DBR Research Program 1983/1984. July 1983, 46 p. No Charge

(A listing of Divisional research projects including a brief description of the project and the name of the research officer responsible.)

Programme de recherche DRB 1983/1984. Juillet 1983, 46 p. Sans Frais

(Une liste des travaux de recherche menés par chacune des sections de la Division. Cette liste inclut une brève description des travaux et le nom du chargé de recherche.)

Canadian Building Abstracts

This is an annual bilingual publication containing abstracts of building technology articles and reports published in Canada, including ones by our own staff.

Analyses traitant du bâtiment au Canada

Cette publication annuelle (en anglais et en français) comprend des résumés d'articles et de rapports de sources canadiennes relatifs aux techniques du bâtiment, incluant des articles rédigés par le personnel de la Division ou par d'autres organismes.

Building Research News

Building Research News (BR News) is a bilingual news bulletin published three times a year. It contains short reports on our research projects as well as staff news, book notes and information on building research carried out in other organizations in Canada.

Actualités DRB

Les Actualités DRB, publiées en anglais et en français trois fois par an, renseignent sur les projets de recherche de la Division ou d'autres organismes au Canada. On y trouve également des informations sur le personnel et des notices bibliographiques.

Associate Committee on Geotechnical Research

A list of Technical Memoranda issued by the Associate Committee on Geotechnical Research may be obtained by writing to: The Secretary, Associate Committee on Geotechnical Research, National Research Council of Canada, Ottawa, Ontario, K1A 0R6.

Comité associé de recherches géotechniques

Une liste des Notes techniques publiées par le Comité associé de recherches géotechniques peut être obtenue en écrivant au Secrétaire, Comité associé de recherches géotechniques, Conseil national de recherches du Canada, Ottawa, Ontario, K1A 0R6.

National Fire Code of Canada

Information about the National Fire Code may be obtained by writing to: The Secretary, Associate Committee on the National Fire Code, National Research Council of Canada, Ottawa, Ontario, K1A 0R6.

Code national de prévention des incendies du Canada

Toute demande de renseignements relative au Code national de prévention des incendies doit être adressée au Secrétaire, Comité associé du Code national de prévention des incendies, Conseil national de recherches du Canada, Ottawa, Ontario, K1A 0R6.

National Building Code of Canada

Information about the National Building Code of Canada and a list of Code documents may be obtained by writing to: The Secretary, Associate Committee on the National Building Code, National Research Council of Canada, Ottawa, Ontario, K1A 0R6.

Code national du bâtiment du Canada

On peut obtenir des renseignements ou la liste des documents publiés par le Comité associé du Code national du bâtiment en écrivant au Secrétaire, Comité associé du Code national du bâtiment, Conseil national de recherches du Canada, Ottawa, Ontario, K1A 0R6.

SUBJECT INDEX TO TITLES OF OUR PUBLICATIONS 1983

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The abbreviations used in the publication numbers are explained below.

BRN ... Building Research Note

CBD ... Canadian Building Digest

BPN ... Building Practice Note

NRC ... National Research Council of Canada

TT ... Technical Translation

CP ... Computer Program

SYMBOLS

F ... Available in French as well as English

@ ... Available from author only

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La signification des abréviations utilisées dans les numéros de publication est expliquée plus bas.

BRN ... Note de recherche en bâtiment

CBD ... Digest de la construction au Canada

BPN ... Note sur la construction

NRC ... Conseil national de recherches du Canada

TT ... Traduction technique

CP ... Programme informatique

SYMBOLES

F ... publié en français et en anglais

@ ... s'adresser à l'auteur

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